1882/83 A.R.C.

REGISTER

—OF THE—

Maryland Agricultural College,

—FOR—

SESSION ENDING JUNE 28,

1883.

BALTIMORE:
PRINTED AT THE OFFICE OF THE "MARYLAND FARMER,"
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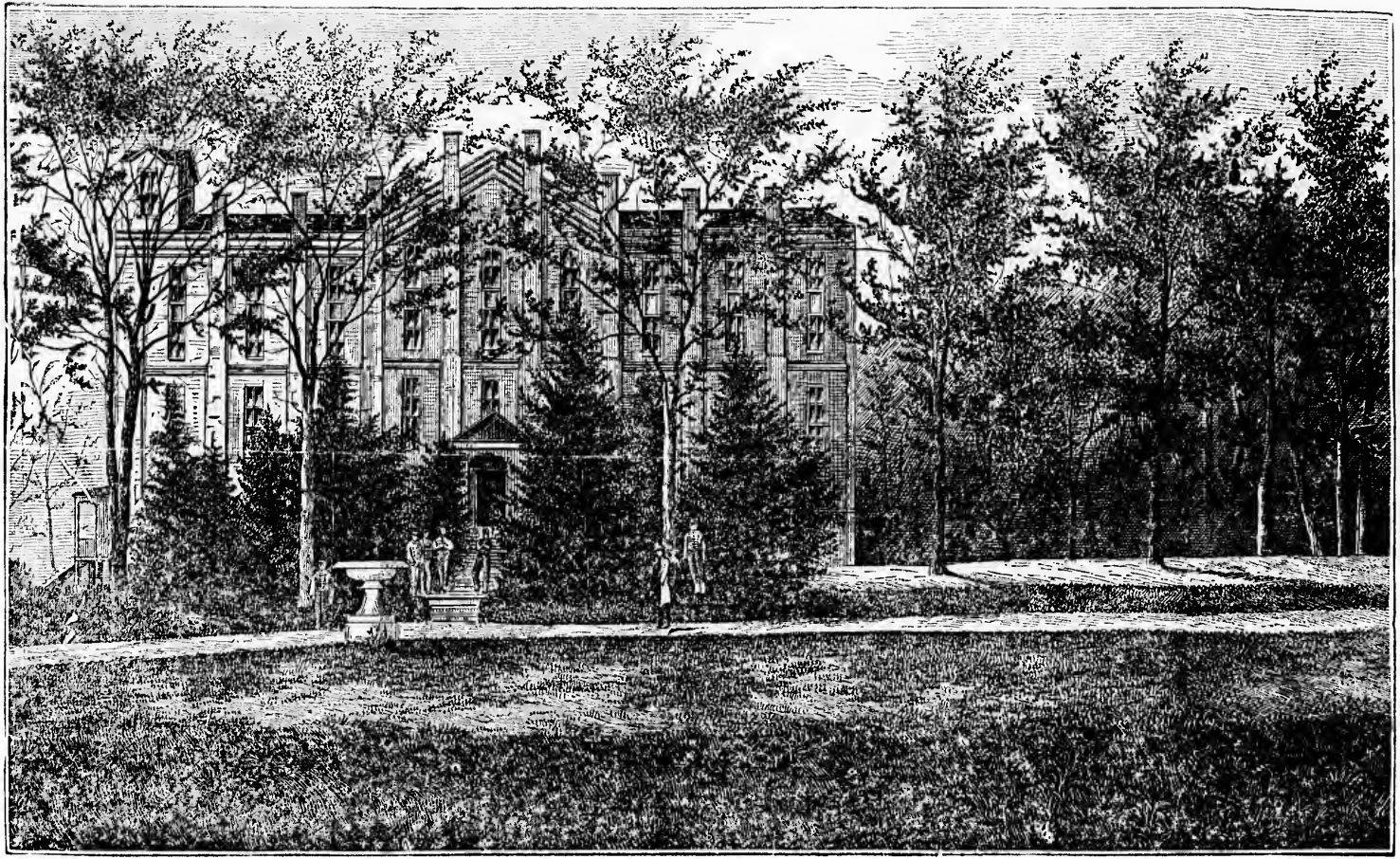

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TRUSTEES.

Representing the State Ex-Officio.

HOH. WM. T. HAMILTON,

Governor of Maryland,

PRESIDENT.

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President of the Senate.

HON. OTIS KEILHOLTZ,

Speaker of the House of Delegates.

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U. S. Commissioner of Agriculture.

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Professor of Mental and Moral Science.

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Professor of English Literature and Agriculture.

WM. P. HEADDEN, Ph. D.
Professor of Chemistry and Modern Languages.

C. C. NORWOOD, A. B.,
Professor of Mathematics and Ancient Languages.

LIEUT. B. ELDRIDGE, U. S. A.
Instructor in Military Science, and Commandant of Cadets.

Note—A Professor to be added for the Department of Civil Engineering and Physics.

MILITARY ORGANIZATION.

LIEUT. B. ELDRIDGE, 10th Infantry, U. S. A., COMMANDANT.

The terms of the United States appropriation require military instruction.

For the better instruction in Infantry Tactics and military practice and discipline, the cadets have been consolidated into one company, under the command of the Commandant of Cadets The officers and non-commissioned officers are selected from those cadets who have been most active and soldier-like in the performance of their duties, and most exemplary in their general deportment This department is in charge of an U S. Army officer.

The training in this department is of great value for health and discipline.

CAPTAIN,

WM. T. LAKIN.

LIEUTENANTS,

WM. R. PORTER, C. W. WOOD, R S. MERCER.

1st SERGEANT,

WM. A. KIRBY,

2d SERGEANT,

R. B. B. CHEW, JR.

3d SERGEANT,

J. W. RYON,

CORPORALS,

WM. B. WEEMS, J. R. LEYBURN.

CATALOGUE OF STUDENTS.

FOR 1882-3

J. R. Seyburn	Louisiana.
J. P. Kemper	"
Clarence Ingate	Mobile, Ala.
J. V. Martin	San Francisco, Cal.
Victor Parks	Norfolk, Va.
Worsham Hudgins	Hampton, Va.
Gustavo Menocal	Havana, Cuba.
Mario Menocal	" "
Gabriel Menocal	" "
Edward Moale, Ji	Montana Territory.
H. S. Bowman	Washington, D. C.
A. Souenschmidt	" "
Thomas S. Bell	" "
D. Kaughman	" "
J. Kelley	" "
James Shief	" "
Archie Tripler	" "
J. Harvell	" "
Wm. Rotenburg	" "
J. W. Boggs	" "
S. E. Lakin	Washington county.
Wm. T. Lakin	" "
R. Albaugh	Montgomery county.
E. E. Rapley	" "
Baker Waters	" "
C. A. Saunders	" "
A. W. Martin	" "
L. Elgie Riggs	" "
J. T. Braddock	" "
Frank Martin	" "

F. S. KEY.....Talbot county.
WM. A. KIRBY..... "
DONALD BAIN..... "
J. B. WEEMS.....Elkridge, Md.
HARVEY GAITHER.....Frederick county.
E. DUDLEY WARFIELD.....Howard county.
WM. E. SCHWEARING..... "
WALTER CHARLES HAMMOND..... "
S. A. CROSS.....Prince George's county.
R. B. B. CHEW, Jr..... " "
P. M. CHEW..... " "
EUGENE DUFFY..... " "
J. W. RYON..... " "
A. MARSHALL MARBURY..... " "
P. A. BOWEN, Jr..... " "
CHAS. E. GRABOWSKIE..... " "
RICHARD RYON..... " "
WM. HOBLITZELL.....Baltimore county.
LOUIS STEIN..... "
WM. H. WYETH..... "
C. S. BANSEMER..... "
E. SCHROEDER..... "
HARRY FREELAND.....Calvert county.
WM. L. SMITH..... "
J. H. STONESTREET.....Charles county.

GRADUATES OF 1882-83.

HARRY FREELAND, A. B. 83 — J. H. STONESTREET, A. B. 82
P. A. BONE, A. B. 82 — E. E. RAPLEY, A. B. 83
C. A Saunders — A.B. 82 — R. B. B. CHEW, Jr. 83 — W. A. Lakin — A.B. 83

RECAPITULATION.

Maryland	35	Virginia	2
District of Columbia	10	Alabama	1
Havana, Cuba	3	California	1
Louisiana	2	Montana Ter.	1
			55

BOARD OF VISITORS.

C. Morton Stewart	Baltimore City
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W. W. Corcoran	Washington, D. C.
Genl. J. H. Gilman	" "
Dr. C. M. Smith	Franklin, La.
Dr. I. L. Adkins	Talbot Co., Md.
Hon. John Randolph Tucker	Lexington Va.
Hon Henry G. Davis	Deer Park, W. Va.
Hon. James A. Gary	Baltimore County.
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Judge Edward Duffy	" "
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Genl. John S. Berry	" "
Hon. Jno. L Thomas	" "
Hon. Robert M McLane	" "
Genl. Bradley T. Johnson	" "
Rev. A. M. Randolph, D. D	" "

THE

MARYLAND AGRICULTURAL COLLEGE.

The College is situated in Prince George's Co., Md., on a commanding eminence overlooking a beautiful landscape, in full view of College Station, Baltimore and Ohio Railroad, which is eight miles north of Washington, and thirty-two south of Baltimore. Fourteen trains, seven from Washington and seven from Baltimore, stop at College Station, daily.

The farm contains 286 acres, the soil of which varies in quality and condition, thus affording good opportunity for experiments. There are meadows artificially drained, dry bottom lands and rolling high-lands. Its proximity to Washington secures for it many advantages in the Agricultural Department and Scientific Institutions and Libraries connected with the General Government.

The building is an imposing structure of brick, relieved by an east and south portico, and besides artificial adornment with trees and shrubbery, is surrounded by a beautiful grove of forest growth, and is capable of accommodating 150 students. On the first floor are the Dining Room, Laboratory, Museum, Chapel, Bath-room, Department of Languages and Preparatory Department. On the second floor, the Parlor, Visitor's Room, President's Room, Registrar's Office, Commandant's Office, English, Agricultural and Mathematical Lecture Rooms, Society Hall and Library. The chambers are large, well ventilated, well heated and lighted throughout with gas. The sanitary regulations are complete, and all the surroundings are pleasant and healthful.

The fact, that in addition to the ordinary college curriculum, it adds the school of Agricultural Science, should commend it the more strongly to public favor; and the liberal and useful education which it gives at so moderate a sum should not be the less prized because the endowment of the United States Government and the State aid enables the Board of Trustees to confer this great boon upon those who are its fortunate recipients.

To accommodate those patrons at a distance who wish their sons to remain at the college during vacation months, the privilege will be granted them, if desired, to board at the institution upon reasonable terms. This should be esteemed a rare advantage, as a more delightful summer residence could scarcely be found either for pleasure or health, there being upon the place and within a few moments reach near by, mineral waters which are widely known and valued for their medicinal virtue. In addition to this, the beautiful and healthful surroundings of the college; its proximity to the Capital with its numerous objects of interest, and its nearness to the seaboard should make it an attractive place to spend the summer months. To members of Congress, public officials, and those persons sojourning temporarily at Washington, who wish their sons to receive a useful and practical as well as a liberal education under their own supervision, this institution offers rare inducements, being within twenty minutes reach from that city. Indeed we do not see how any institution could possess greater advantages than this College for building up a prosperous and useful educational work, either for entrance into the professions or for engaging in the independent and ennobling occupation of agriculture.

COURSE OF INSTRUCTION.

The branches of study are grouped under the following departmants, and embrace the subjects named:

1. Agriculture, Scientific and Practical
2. Civil Engineering and Physics.
3. English Literature, Mental and Moral Science and History.
4. Mathematics.
5. Chemistry.
6. Ancient and Modern Languages.

Department of Civil Engineering and Physics.

CIVIL ENGINEERING embraces a course of study by which the student will learn surveying, to map farms, run ditches and drains, construct roads and bridges, and learn the general principals of digging canals, building rail-roads, &c.

PHYSICS.—This embraces a liberal course in Natural Philosophy and Natural History, Astronomy, and Physical Geography illustrated by maps.

Department of English Literature Mental and Moral Science, and History.

ENGLISH.—The History, Usage, and Grammatical Structure of the English Language; History of English Literature; Rhetoric; Composition; Elocution; Logic and Moral Philosophy.

HISTORY.—Ancient and Modern.

LECTURES.—

Department of Mathematics.

ALGEBRA.—Reduction and Solution of Equations of the first and second degrees; Proportions and Progressions; nature and construction of Logarithms, and the theory of Equations.

GEOMETRY.—Plane and Solid.

TRIGONOMETRY.—Analytical investigation of Trigonometrical Formulas, and their application to the solution of all the cases of Plane and Spherical Trigonometry; the construction and use of Trigonometrical Tables.

APPLICATION OF ALGEBRA AND TRIGONOMETRY.—Mensuration of Planes and Solids.

DESCRIPTIVE GEOMETRY.—The graphic illustration and solution of problems in Solid Geometry: Projections of the sphere.

ANALYTICAL GEOMETRY.—Equations of the Right Line, Plane and Conic Sections; Principal problems relating to the Cylinder, Cone, Sphere and Spheroids.

LECTURES on Shades, Shadows and Perspective.

BOOK-KEEPING.

Department of Chemistry.

CHEMISTRY.—Organic and Inorganic Chemistry; Qualitative and Quantitative Analysis; Detection and separation of the Elements; Manufacture and Application of Chemicals; Organic, Volumetric and Spectroscopic Analysis; Agricultural Chemistry.

In this department analysis of soils and manures will be made for a nominal fee for farmers.

Department of Ancient and Modern Languages.

LATIN.—Grammar, Reader, Cæsar, Ovid, Virgil, Cicero, Horace, Sallust.

FRENCH.—Grammar, Reader, Classics, Colloquial Exercises.

GERMAN.—Grammar, Reader, Classics, Colloquial Exercises.

TEXT BOOKS relating to all the Departments will be furnished at publishers rates.

Department of Agriculture—Scientific and Practical.

The instruction in this Department includes both theory and practice, and on account of the great importance attached to it as the greatest of the industries, is intended to embrace the widest field of knowledge, and to impart the most thorough course of instruction of which it is capable. It comprises the study of the nature and cultivation of plant life in all its forms, and also in its relation to the uses and purposes of mankind. This would embrace the study of Botany, Physiology of Plants, their diseases and remedies, Zoology, Entomology, Geology, Mineralogy, Agricultural Chemistry, Raising of Cattle, Sheep and other animals, Poultry, Bees, &c.: Drainage and Surveying are included in this course, as well as Political Economy.

THE PRACTICAL DEPARTMENT

Comprises work on the farm and in the laboratories.

For the first, Students are divided into *garden*, *field*, *yard* and *grounds* detail, and under competent supervision are instructed in whatever work the season may offer in these divisions of a farm.

The special Agricultural Class is on practice detail daily.

A suitable compensation is paid to students on special volunteer detail on Saturdays and other days and during vacation, which would materially reduce their expenses.

THE LABORATORY work comprises work in the Chemical Laboratory; work in the Microscopic Department of Botany and Zoology; work in the Geological, Mineralogical and Osteological Cabinets; work in the Veterinary Dissecting Rooms, &c.

The facilities for illustration. &c., in this department consist of the farm of 286 acres, under varied experimental cultivation. The vegetable garden occupies 10 acres, and there are extensive fruit and flower gardens. Cabinets of mineralogical, geological and botanical specimens are provided; skeletons, anatomical preparations and a therapeutical collection assist in the illustration of veterinary science. The school of chemistry offers facilities for chemical analysis, &c. The vicinity of Washington and Baltimore permits the department to avail itself of the superior advantages for investigation to be found in the Agricultural, Smithsonian and other Governmental departments at Washington, and in the fertilizer, machine and implement manufactories of Baltimore.

Special Agricultural Students are admitted at any time during the session.

DEGREES.

I. The Degree of Bachelor of Arts will be conferred upon those who graduate in all the Schools.

II. The Degree of Bachelor of Science will be conferred upon those who graduate in the Schools of Astronomy and Civil Engineering, English Literature, Mathematics, Physics, Chemistry and Languages.

III. The Degree of Bachelor of Agricultural Science (B. A. S.) will be conferred on students passing satisfactorily the Course in Agriculture.

IV. Students who pass satisfactory examinations in the Schools of English, Mathematics, Agriculture and Chemistry will be declared graduates in Agriculture.

V. Those who take the Degree of Bachelor of Arts or Bachelor of Science and devote themselves to study for three years thereafter, will be entitled to the Degree of Master of Arts or Master of Science.

PRIZES AND MEDALS

Are given for Scholarship, Essays and Declamation. The Mercer Literary Society also gives a medal.

EXAMINATIONS.

A Semi-annual examination in the presence of the Faculty is held the last week of the first term.

Monthly examinations at the blackboards are required in all the departments.

The Annual Examination is held during the last week in June, and is open to the public.

Students who fail to pass satisfactory examinations at the end of each term are not allowed to continue with their classes.

MARKS.

The scale of marks for recitation and exercises ranges from 4 to 0. A mark of 4 indicates thoroughness; 0, a total failure; the intermediate numbers indicate absolute values.

A Mark 2.5 represents the minimum of proficiency. Students whose final average for the term or year, in any branch, falls below that number are liable to be turned back to the next class.

MERIT ROLLS.

Are kept by the Professors of each class, and the final average of each student is determined by the Faculty at the annual examinations. Reports showing the progress and standing of students are sent to parents monthly.

MUSEUM.

A collection of anatomical, physiological, geological and mineralogical specimens, with a variety of seeds, &c., has been arranged as a nucleus of an agricultural museum.

LIBRARIES.

The College library embraces laws and enactments of both Maryland and the United States, extending over a long period, and reports of the Agricultural, Educational and other departments of the Government, covering many years back, as well as other valuable and useful works.

The Mercer Literary Society Library contains over one thousand volumes of histories, biographies, poetry, choice novels, encyclopedias and miscellaneous works. This society was organized by the late Dr. Mercer, of New Orleans, and holds weekly meetings for discussion, declamation and reading.

VACATION AND TERMS.

The scholastic year is divided into two terms with but one regular vacation, beginning the last week of June, and closing about the middle of September; and a short intermission at Christmas and Easter.

The first term opens on the 20th of September and closes with the month of January. The second term begins the first of February and ends with the college year, the last of June.

RELIGIOUS SERVICE.

Daily morning prayer and Divine Service on Sunday, are regularly held in the chapel. Students are required to attend, unless a written request to the contrary be made. Students shall observe the Lord's day with decorum.

DISCIPLINE.

The following laws will be strictly enforced.

1. Students shall not go beyond the limits of the farm; use fire-arms; sit up after taps or hold any general meeting without permission.

2. Profane language, card playing, gambling, intoxication, or any of their attendant vices, will not be tolerated by the Faculty. Any student known to indulge in habits injurious to the morals of the College, or calculated to destroy its established discipline will not be taken or retained.

3. Destruction of property, disorderly conduct, in the halls, on the grounds, on furlough, or any other violation of the published orders of the President, or officer-in-charge, will be punished by tasks, demerits, guard duties, and such other punishments as the faculty may decide.

4. Members of the Faculty and all officers-in-charge are required to report any violation of these regulations.

5. Upon matriculation, each student will be furnished with a copy of these and other regulations, and will be required to obey them.

EXPENSES.

PAYABLE IN ADVANCE.

First Session —Board, Tuition, Lights, Washing, Fuel and Room rent	$100 00
Matriculation Fee	5 00
Total	$105 00

Second Session.—Same as the first, less the Matriculation Fee.

Day Scholars will be taken on reasonable terms.

Prepayment in every case is required, unless satisfactory arrangement be made with the President of the Faculty for settlement otherwise.

No deduction will be made for absence, except in case of protracted illness; nor will money be refunded in case a student be withdrawn or dismissed during the term, unless at the discretion of the President, who will be guided by equity.

UNIFORM AND OTHER CLOTHING.

Arrangements are made with a competent tailor who supplies the uniforms. The cost, with cap. is from $21.00 to $22.50.

Students must bring a supply of towels, napkins, blankets and two pair each of sheets and pillow cases. All articles of clothing must be marked.

A gymnasium is connected with the College for physical exercise.

REQUISITES FOR ADMISSION.

Students will be received, examined and assigned to their proper classes at any point in the college course; those who cannot pass good examinations in reading, writing, arithmetic, grammar, geography and history of the United States, will not be allowed to begin the course. All not so qualified will be entered in the Preparatory Department.

Applications for admission or for further information should be addressed to the President of the Maryland Agricultural College.

DISPENSARY.

The Professor in charge of the Dispensary will visit and report all cadets unfit for duty by sickness.

ADDENDA.

The complete collegiate course is comprised in the *Freshman*, *Sophomore*, *Junior* and *Senior* classes with their appropriate text books.

PREPARATORY DEPARTMENT.

A Preparatory Department for youths over 12 years of age is provided.

ELECTIVE SYSTEM.

Students who do not wish to become farmers may omit *practical agriculture*, and take the ordinary *classical and scientific course*, which will embrace certain branches of instruction in *scientific agriculture*. Or, if they desire to fit themselves for farmers, they may take the *complete agricultural course*, which will embrace, besides scientific and practical agriculture, certain branches in the classical department; the object being, besides graduating educated farmers, to disseminate as widely as possible a knowledge and appreciation of the importance and capabilities of agriculture among all professions and vocations by interweaving agricultural science with the classical course.

TECHNICAL EDUCATION.

The charter of this college, besides prescribing a liberal classical and scientific collegiate education, and a thorough course in scientific and practical agriculture; also provides instruction in the mechanic arts, and it is the intention of this institution to develop *technical education* to the extent of its ability.

IMPROVEMENTS.

The buildings will be refurnished and undergo repair during vacation with the view of providing thoroughly for the comfort of the students

OMISSION.

The names of William A. Lakin, of Talbot county, and C. A. Saunders, of Montgomery county, Md., were unintentionally omitted among the graduates for years '82 and '83. They both earned and received the degree of Bachelor of Arts.

"An enlightened agriculture is the basis of all national wealth."
—*Daniel Webster.*

Presented with the compliments of the President and the Board of Trustees of the Maryland Agricultural College.

Address all communications to the President of the Maryland Agricultural College, College Station, Prince George's Co., Md.